

Claims listing

1. (currently amended) A method for direct localized therapeutic treatment of myocardial tissue in heart having a pathological condition comprising the steps of:
 - a. identifying a target region of the myocardium having an epicardial region and an endocardial region and an intramural space defined between;
 - b. delivering a lead having an electrode to said intramural space; wherein said electrode is configured to be connected to a therapeutic or diagnostic device, and ~~wherein~~ physically modifying the mechanical properties of at least a portion of the myocardial tissue of the target region substantially identified in step (a) ~~is physically modified~~.
 - c. applying the electrode to at least a portion of the target region myocardial tissue substantially identified in step (a) to physically modify the mechanical properties of said tissue and limit motion in the peri-infarct or infarct region; and
 - d. applying the electrode to at least a portion of infarcted myocardial tissue allowing an electrical impulse to travel through the infarcted region of the myocardial tissue while at the same time physically modifying the mechanical properties of said tissue and limiting motion in the peri-infarct or infarct region.
2. (original) The method of claim 1 wherein the modified mechanical properties include an increase in systolic performance.
3. (original) The method of claim 1 wherein the therapeutic or diagnostic device is a pacemaker.
4. (original) The method of claim 1 wherein the therapeutic or diagnostic device is a cardioverter/defibrillator.
5. (original) The method of claim 1 wherein the therapeutic or diagnostic device is a cardiac resynchronization device.
6. (original) The method of claim 2 wherein the modified mechanical properties include substantially no decrease in diastolic performance.

7. (original) The method of claim 1, wherein said target region includes a myocardial infarct or ischemic zone.
8. (original) The method of claim 7, wherein the lead includes an electro active bridge for spanning said infarct or ischemic zone.
9. (original) The method of claim 1, wherein said delivering step further comprises delivering a substantially accurately curved lead into the intramural space.
10. (original) The method of claim 9 wherein said delivering step further comprises using a stylet.
11. (original) The method of claim 9 wherein said delivering step further comprises using a guidewire.
12. (original) The method of claim 1, wherein said lead further comprises echo features for aiding visualization.
13. (original) The method of claim 1, wherein said lead further comprises radiopaque features.
14. (original) The method of claim 1, wherein said lead further comprises a drug eluting surface.